

Editor-in-Chief

M. Nivat

(Université Paris VII Denis Diderot)
B.P. 1
95570 Moisselles, France

Section Editor Mathematical Games

A.S. Fraenkel

The Weizmann Institute of Science
Faculty of Mathematical Science
Dept. of Applied Mathematics and
Computer Science
P.O. Box 26
Rehovot 76100, Israel
fraenkel@wisdom.weizmann.ac.il

Honorary Board

J. Bečvář

Mathematical Inst. Acad. of Science
Žitná 25
PSC 11567 Prague 1, Czech
Republic

C. Böhm

Via S. Crescenziano 20
1-00199 Roma, Italy

E. Engeler

ETH Zentrum
Department of Mathematics
CH-8092 Zürich, Switzerland
engeler@math.ethz.ch

M.A. Harrison

University of California
Computer Science Division
775 Soda Hall
Berkeley, CA 94720-1776, USA

R. Milner

University of Cambridge
Computer Laboratory
New Museums Site
Penbrooke Street
Cambridge, CB2 3QG, UK

E. Shamir

The Hebrew University
Department of Mathematics
Jerusalem, 91904, Israel
shamir@cs.huji.ac.il

R. Siromoney

Madras Christian College
Department of Mathematics
Tambaram, Madras, 600 059, India

Xu Jiafu

Nanjing University
Institute of Computer Software
210008 Nanjing, China

Editorial Board Algorithms, Automata, Complexity and Games

A. Apostolico

Purdue University
Department of Computer Sciences
1398 Computer Science Building
West Lafayette, IN 47907-1398,
USA
axa@cs.purdue.edu
Univ. di Padova
Dip. di Elett. e Informatica
Via Gradenigo 6/A
35131 Padova, Italy
axa@dei.unipd.it

G. Ausiello

Univ. di Roma "La Sapienza"
Dip. Inform. e Sistemistica
via Salaria 113
00198 Roma, Italy
ausiello@dis.uniroma1.it

J. Boissonnat

INRIA, Sophia-Antipolis
2004 Route des Lucioles
06565 Valbonne Cedex, France
boissonnat@sophia.inria.fr

R.V. Book

Univ. of California
Department of Mathematics and
Computer Science
Santa Barbara, CA 93106, USA
book@math.ucsb.edu

M. Crochemore

Université de Marne la Vallée
Institut Gaspard Monge
2 rue de la Butte Verte
F-93160 Noisy-le-Grand, France
mac@univ-mlv.fr

F. Cucker

Universitat Pompeu Fabra
Balmes 132
08008 Barcelona, Spain
cucker@upf.es

K. Culik II

The University of South Carolina
Department of Computer Science
Columbia Campus
Columbia, SC 29208, USA
culik@cs.scolumbia.edu

J. Díaz

Univ. Politec. de Barcelona
Facultat d'Informàtica
Pau Gargallo 5
08028 Barcelona, Spain
diaz@lsi.upc.es

D.-Z. Du

Univ. of Minnesota
Department of Computer Science
Minneapolis, MN 55455, USA
dzd@cs.umn.edu

Ph. Flajolet

INRIA
Dom. de Voluceau-Rocquencourt
B.P. 105
F-78153 Le Chesnay Cedex, France

E. Goles

Universidad de Chile
Fac. Ciencias Físicas y Matemática
Departamento de Ingeniería
Matemática
Casilla 170 correo 3
Santiago, Chile

O.H. Ibarra

Univ. of California at S. Barbara
Department of Computer Science
Santa Barbara, CA 93106, USA
ibarra@cs.ucsb.edu

M. Ito

Kyoto Sangyo University
Faculty of Science
Kamigamo-Motoyama
Kita-ku
Kyoto, 603, Japan
ito@ksu.vx0.kyoto-su.ac.jp

G. Jäger

Universität Bern
Institut für Informatik und
Angewandte Mathematik
Länggassstrasse 51
CH-3012 Bern, Switzerland
jaeger@iam.unibe.ch

I. Mitrani

Univ. of Newcastle-upon-Tyne
Department of Computer Science
Newcastle, NE1 7RU, UK
isi.mitrani@newcastle.ac.uk

S. Miyano

Human Genome Center
Institute of Medical Science
University of Tokyo
Shirokanedai 4-6-1, Minato-ku
Tokyo 108, Japan
miyano@ims.u-tokyo.ac.jp

M. Nivat (*Editor-in-Chief*)
(Université Paris VII – Denis Diderot)
B.P. 1
95570 Moisselles, France

V. Pan

City University of New York
Lahman College
Department of Mathematics and
Computer Science
250 Bedford Park Boulevard West
Bronx, NY 10468-1589, USA

M.S. Paterson

University of Warwick
Department of Computer Science
Coventry, CV4 7AL, UK
mike.paterson@dcs.warwick.ac.uk

D. Peleg

The Weizmann Institute of Science
Faculty of Mathematical Science
Dept. Applied Math. & Comp.
Science
P.O. Box 26
Rehovot 76100, Israel

D. Perrin

Université de Marne la Vallée
Institut Gaspard Monge
2 rue de la Butte Verte
F-93160 Noisy-le-Grand, France
perrin@univ-mlv.fr

F.P. Preparata

Brown University
Department of Computer Science
P.O. Box 1910
Providence, RI 02912-1910, USA

H. Prodinger

Technische Universität Wien
Institut für Algebra und Diskrete
Mathematik
Abteilung für Theoretische Informatik
Wiedner Hauptstrasse 8-10
A-1040 Vienna, Austria
prodinger@rsmb.tuwien.ac.at

A.A. Razborov

Steklov Mathematical Institute
Vavilova 42, GSP-1
Moscow 117966, Russia
razborov@class.mian.su

G. Rozenberg

Leiden University
Department of Computer Science
P.O. Box 9512
2300 RA Leiden, Netherlands
rozenber@wi.leidenuniv.nl

B. Rován

Comenius University
Department of Computer Science
Mlynska Dolina
842 15 Bratislava, Slovak Rep.
rovan@fmph.uniba.sk

A. Salomaa

University of Turku
Department of Mathematics
20500 Turku, Finland
asalomaa@sara.cc.utu.fi

I. Simon

Universidade de São Paulo
Inst. de Matem. e Estatística
Caixa Postal 66281
05389-970 São Paulo, SP, Brasil
is@ime.usp.br

P. Spirakis

Computer Technology Inst.
P.O. Box 1122
26110 Patras, Greece
spirakis@cti.gr

S. Tripathi

University of Maryland
Dept. of Computer Science
College Park, MD 20742, USA
tripathi@cs.umd.edu

O. Watanabe

Tokyo Institute of Technology
Department of Computer Science
Meguro-ku
Tokyo 152, Japan
watanabe@cs.titech.ac.jp

F. Yao

Xerox Corporation
Palo Alto Research Center
Computer Science Laboratory
Palo Alto, CA 94304, USA

Editorial Board Logic, Semantics and Theory of Programming

S. Abramsky

Imperial College
Department of Computing
180 Queen's Gate
London, SW7 2BZ, UK

K.-Y. Chwa

KAIST
Computer Science Department
P.O. Box 150
130-650 Cheongryang, Seoul,
South Korea

P.-L. Curien

Ecole Normale Supérieure
LIENS
45 Rue d'Ulm
75230 Paris Cedex 05, France
curien@dmi.ens.fr

J.W. de Bakker

C. Mathematics & Computer Sci.
Department of Computer Science
P.O. Box 4079
1009 AB Amsterdam, Netherlands
jaco@cwi.nl

P. Freyd

University of Pennsylvania
Department of Mathematics
Philadelphia, PA 19104-6395, USA
pjf@cis.upenn.edu

H. Katsuno

NTT Basic Research Laboratories
3-1 Morinosato-Wakamiya
Atsugi, Kanagawa, 243-01 Japan
katsuno@theory.brl.ntt.jp

V. Kotov

Hewlett Packard Laboratories
1501 Page Mill Road, Bldg 1U-14
Palo Alto, CA 94303-1126, USA
kotov@flute.hpl.hp.com

A.A. Letićevsky

Institute for Cybernetics
pr. akad. Gluškova 40
252207 Kiev, Ukraine
let@d105.icyb.kiev.ua

G. Levi

Università di Pisa
Dipartimento di Informatica
Corso Italia 40
56125 Pisa, Italy
levi@di.unipi.it

Z. Manna

Stanford University
Artificial Intelligence Lab.
Stanford, CA 94305, USA
manna@cs.stanford.edu

A.R. Meyer

Massachusetts Institute of
Technology
Laboratory for Computer Science
545 Technology Square
Cambridge, MA 02139, USA
meyer@lcs.mit.edu

G. Mirkowska

ul. Kochanowskiego 28m9
01-864 Warszawa, Poland

M.W. Mislove

Tulane University
Dept. of Mathematics
New Orleans, LA 70118, USA
mwm@math.tulane.edu

U. Montanari

Università di Pisa
Dipartimento di Informatica
Corso Italia 40
I-56100 Pisa, Italy
ugo@di.unipi.it

M. Nivat (*Editor-in-Chief*)
(Université Paris VII – Denis Diderot)
B.P. 1
95570 Moisselles, France

G.D. Plotkin
University of Edinburgh
Department of Computer Science
The King's Buildings
Edinburgh EH9 3JZ, UK
gdp@lfc.ed.ac.uk

G. Rozenberg
Leiden University
Department of Computer Science
P.O. Box 9512
2300 RA Leiden, Netherlands
rozenber@wi.leidenuniv.nl

A.L. Semenov
Institute of New Technologies
10 Nizhnaya Radishchevskaya Street
109004 Moscow, Russia

M. Sintzoff
Univ. Catholique de Louvain
Unité d'Informatique
Place Sainte-Barbe 2
B-1348 Louvain-la-Neuve, Belgium
ms@info.ucl.ac.be

J. Staples
University of Queensland
Software Verification Research Centre
Dept. of Computer Science
Brisbane, Qld 4072, Australia

M. Takahashi
Tokyo Inst. of Technology
Dept. of Mathematical and
Computing Sciences
Ookayama, Meguro-ku
Tokyo, 152, Japan
masako@is.titech.ac.jp

P.S. Thiagarajan
SPIC Science Foundation
School of Mathematics
92 G.N. Chetty Road
T. Nagar, Madras-600 017, India
pst@ssf.ernet.in

W. Thomas
Christian-Albrechts Univ. Kiel
Institut für Informatik
Olshausenstrasse 40
24098 Kiel, Germany
wt@informatik.uni-kiel.de

J. Tiurnyn
Institute of informatics
ul. Banacha 2
00-193 Warsaw, Poland
tiurnyn@mimuw.edu.pl

J.D. Ullman
Stanford University
Department of Computer Science
Building 460
Stanford, CA 94305-2140, USA
ullman@cs.stanford.edu

M. Wirsing
Ludwig-Maximilians-Universität
Lehrstuhl für Programmierung und
Softwaretechnik
Leopoldstraße 11B
D-80802 München, Germany
wirsing@informatik.uni-muenchen.de

Editorial Board Mathematical Games Section

Aims and Scope. This section is devoted to, but not restricted to, the mathematical and computational analysis of games. It covers *multi-person games*: geometrical, combinatorial, positional, probabilistic, random, recursive and Ramsey-type games, games with perfect and imperfect information, games with and without chance moves and games against Nature as well as infinite games; *one-person games*: puzzles, pebbling, tiling and others; *zero-person games*: cellular automata and others. It also covers connections or applications of games to areas such as complexity, graph and matroid theory, networks, coding theory, logic and surreal numbers.

Papers describing and analyzing algorithms or computer programs related to games are welcome. Only papers with original and nontrivial mathematical contents will be considered for publication.

C. Berge
CNRS
Equipe de Recherche 175
Combinatoire, C.A.M.S.
54 Boulevard Raspail
75270 Paris Cedex 06, France

E.R. Berlekamp
University of California
Dept. of Computer Science
Berkeley, CA 94720, USA

H.J. Berliner
Carnegie-Mellon University
School of Computer Science
Schenley Park
Pittsburgh, PA 15213-3890, USA

J.H. Conway
Princeton University
Mathematics Department
Fine Hall
Washington Road
Princeton, NJ 08520, USA

A.S. Fraenkel (*Section Editor*)
The Weizmann Institute of Science
Faculty of Mathematical Science
Dept. of Applied Mathematics and
Computer Science
P.O. Box 26
Rehovot 76100, Israel
fraenkel@wisdom.weizmann.ac.il

Y. Gurevich
University of Michigan
EECS Department
Ann Arbor, MI 48109-2122, USA

R.K. Guy
University of Calgary
Dept. of Math. & Statistics
2500 University Drive N.W.
Calgary, Alb., T2N 1N4, Canada

D.E. Loeb
Université Bordeaux I
CNRS
LaBRI (A30)
33405 Talence Cedex, France
loeb@labri.u-bordeaux.fr

J.H. van Lint
T.U. Eindhoven
Afdeling Wiskunde
Postbus 513
5600 MB Eindhoven, Netherlands

Editorial Board Surveys and Tutorial Section

Aims and Scope. This section contains expository papers (surveys or tutorials) dealing with important topics, areas or developments in any part of theoretical computer science. Papers should give a comprehensive and original treatment of the ideas, results and key proofs in the area they cover, and should also contain an extensive bibliography. Each paper in the section (survey or tutorial) should provide an expert introduction to a modern research area in theoretical computer science for which no prior treatments of similar extent have been given.

J. Gallier
University of Pennsylvania
Moore School of Electrical
Engineering
Dept. of Computer and Information
Science
200 South 33rd Street
Philadelphia, PA 19104-6389, USA
jean@sacl.cis.upenn.edu

M. Nivat (*Editor-in-Chief*)
(Université Paris VII – Denis Diderot)
B.P. 1
95570 Moisselles, France

Editorial Board Electronic Notes in Computer Science

ENTCS is a venue for the rapid electronic publication of the proceedings of conferences, of lecture notes, monographs and other similar material for which quick publication and the availability on the electronic media is appropriate. Volumes in the ENTCS series are published using the electronic archives of Elsevier Science B.V. (<http://www.elsevier.nl/locate/entcs>) Organizers of conferences whose proceedings appear in ENTCS, and authors of other material appearing as a volume in the series are allowed to make hard copies of the relevant volume for limited distribution. For example, conference proceedings may be distributed to participants at the meeting, and lecture notes can be distributed to those taking a course based on the material in the volume.

M.W. Mislove (*Managing Editor*)

Tulane University
Department of Mathematics
New Orleans, LA 70118, USA
mwm@math.tulane.edu

M. Nivat (*Managing Editor*)

(Université de Paris VII – Denis Diderot)
B.P. 1
F-95570 Moisselles, France

C.H. Papadimitriou

(*Managing Editor*)
Univ. of California at San Diego
Dept. of Electrical Eng. & Computer Sci.
San Diego, CA 92093, USA
christos@helios.ucsd.edu

S. Brookes

Carnegie-Mellon University
School of Computer Science
5000 Forbes Avenue
Pittsburgh, PA 15213-3890, USA
brookes@cs.cmu.edu

B. Chazelle

Princeton University
Department of Computer Science
35 Olden Street
Princeton, NJ 08544-2087, USA
chazelle@cs.princeton.edu

V. Diekert

Universität Stuttgart
Institut für Informatik
Breitwiesentrasse 20-22
D-70565 Stuttgart, Germany
diekert@informatik.uni-stuttgart.de

M. Hennessy

University of Sussex
School of Cognitive and
Computing Sciences
Falmer
Brighton, BN1 9QH,
United Kingdom
matthewh@cogs.susx.ac.uk

D. Krob

Univ. de Paris VII – Denis Diderot
LITP
2 Place Jussieu
F-75251 Paris Cedex 05, France
Daniel.Krob@litp.ibp.fr

J. Mitchell

Stanford University
Department of Computer Science
Building 460
Stanford, CA 94305-2140, USA
jcm@cs.stanford.edu

E. Moggi

University of Genova
Department of Mathematics
Via L.B. Alberti 4
16132 Genova, Italy
moggi@disi.unige.it

D. Niwinski

Warsaw University
Institute of Informatics
ul. Banacha 2
02-097 Warsaw, Poland
niwinski@mimiuw.edu.pl

A. Pnueli

The Weizmann Inst. of Science
Fac. of Mathematical Science
Dept. Appl. Mathem. & Computer Sci.
P.O. Box 26
Rehovot, 76100, Israel
amir@wisdom.weizmann.ac.il

J.J.M.M. Rutten

CWI
P.O. Box 94079
1090 GB Amsterdam,
The Netherlands
jan.rutten@cwi.nl

R.F. Wachter

Office of Naval Research
Computer & Information Sci. Div.
Code 311
800 North Quincy Street
Arlington, VA 22217-5660, USA
wachter@itd.nrl.navy.mil